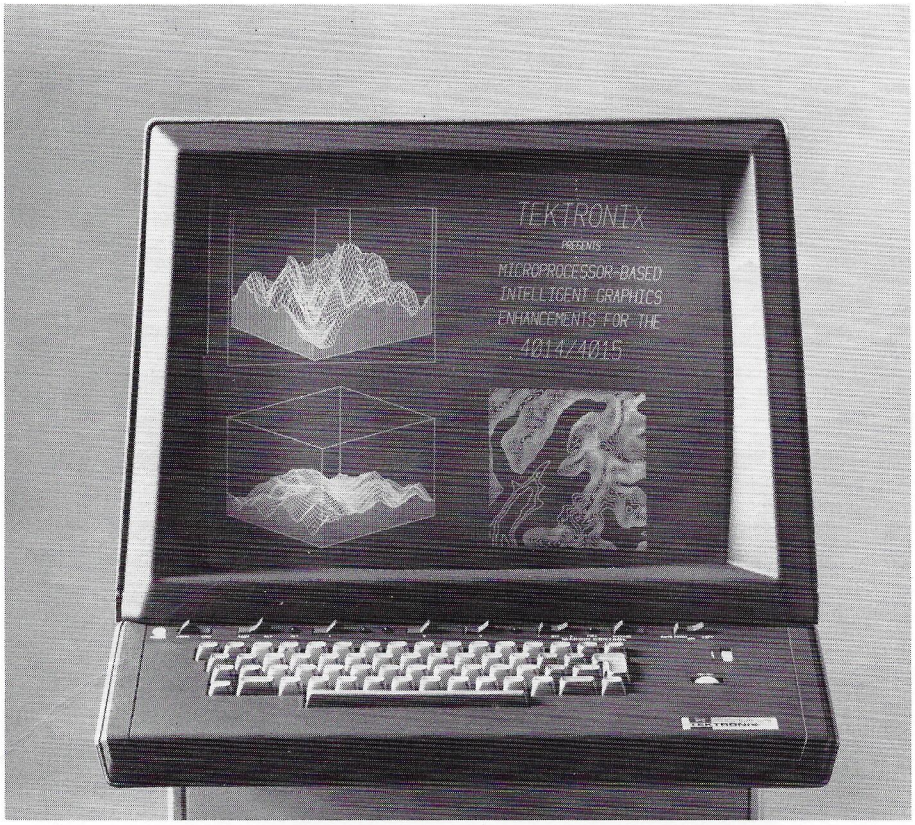
4014-1/15-1 TEKTRONIX

OPTION 40 Programmable Keyboard Capability

The Programmable Keyboard Capability (PKC) distributes the graphics workload by allowing you to save your graphic displays, picture segments, symbols and alphanumerics locally for quick redisplay anywhere on the 4014-1 Computer Display Terminal's high resolution, 19″ screen.*



The Option 40 PKC can easily reduce your data transmission and computer time one half and speed up your graphic applications 5 times on 1200 baud lines.

Data transmission can be reduced by saving locally in the terminal's 28K byte buffer entire displays, segments of displays, vector-drawn graphic symbols and character sets, and alphanumerics. This information can then be called out and instantly displayed by one or two characters from the keyboard or under program control.

Previously saved displays can be recalled for plotter or direct hard copies, overlays, and comparisons without retransmitting the data. A display may also be saved locally as several separate picture segments and occurrences of symbols. This allows you to change the display by only transmitting the changed segments.

Speed and interactivity enhanced, appearance improved. The call-up of complex graphics instantaneously and generated locally means reductions in on-line time and increased interactivity normally found in systems operating at 9600 baud or faster. Option 40 also enhances the quality of your graphic displays by allowing you to use the attractive vector drawn character sets and your own symbols with local clipping.

produced symbols and characters, your data transmission will be considerably reduced and speed enhanced using locally drawn characters and symbols, again invoked by one or two ASCII characters.

Alphanumeric Operation Enhanced. In addition to single-character call-up of graphics, the Option 40 Programmable Keyboard Capability enhances alphanumeric operation. It lets you convert lengthy alphanumerics to one or two key commands on the 4014-1 terminal making operation fast and simple. Keys may be programmed to contain interactive menus, data entry forms, tabbing instructions, program commands, automatic log-on and procedure commands, peripheral control commands, descriptive HELP messages and operator information. The keyboard layout may also be redefined and keys may be combined.

*Also available for the 4014, 4015 and 4015-1.

New Editing Convenience. Option 40 adds extra alphanumeric convenience in local editing. The latest alphanumeric line can be displayed in refresh allowing you to utilize character delete, replace and insert, line delete and line send. In addition, you may redisplay up to the last 10 alphanumeric lines at the top of the screen after an erase.

Add intelligent graphics to existing applications. You can easily add Option 40 to your 4014-1 and start obtaining its benefits immediately. Simply plug in the replacement minibus extender and circuit cards to start using its plain language commands either locally or under program control. For example, turn Option 40 on with !ON, add the use of local alphanumeric editing to your 4014-1 with !EDIT, or program the key *A* to contain a message: !LEARN *A*

***A* will now be defined as this message. It could also be ASCII-encoded graphics data that would produce graphics on the 4014-1 by typing "*A* or sending "*A* under program control. In this example, typing "*A* would display the message in bold face.** !LEARN.

For users of PLOT 10 Terminal Control System (TCS) software, support is also provided in the form of additional FORTRAN callable subroutines to be used with TCS.

Enhances Local Peripherals and Communications. Graphics displays, segments, symbols, character sets, plain language commands, and alphanumerics may be downloaded from the host or from a local storage device such as the 4923 Digital Cartridge Tape Recorder or 4921/22 Flexible Disc Memory Unit. Any graphics or alphanumerics distributed locally in the terminal may also be plotted on the 4662 Interactive Digital Plotter or copied directly by the 4631 Hard Copy Unit.

Option 40 may also be used as a communications buffer for large bursts of data since all un-used memory is also available for incoming data.

Option 40 consists of the following: A processor board with a Motorola 6800, 8-bit microprocessor and 3.25K bytes RAM. An extended memory board for the optional 16K or 32K bytes RAM and optional ROM kits. A replacement minibus extender. Accessories: keyboard overlay, transparent keycaps, keycap puller.

Untransformed graphics are displayed locally at 9600 baud and rotated, scaled or translated at 4800 baud. Incoming data may be received in bursts up to 50 kilo baud.

Order Information. Your local Tektronix Sales Engineer can provide full information on how to order the Option 40, Programmable Keyboard Capability for your new or existing 4014-1 Computer Display Terminal.

Tektronix, Inc.
Information Display Group
P.O. Box 500,
Beaverton, OR 97077
Telephone: (503) 638-3411
TWX: 910-467-8708
Cable: TEKTRONIX

Tektronix Datatek N.V.
P.O. Box 159
Badhoevedorp, The Netherlands
Telephone: 02968-6051
Telex: 16565
Cable: DATATEK Holland

Sony/Tektronix Corporation
9-31 Kitashinagawa-5
Shinagawa-Ku
Tokyo 141 Japan
Telephone 445-0221
(Area 03/Tokyo)
Telex: 02422850
Cable: SONYTEK Tokyo

Tektronix Australia Pty. Limited
Sydney
80 Waterloo Road
North Ryde, N.S.W. 2113
Telephone: 888-7066
Cable: TEKTRONIX Australia

Tektronix Canada Ltd.
P.O. Box 6500
Barrie, Ontario
Canada L4M 4V3
Telephone: (705) 737-2700
Telex: 06-875672
Cable: TEKANADA

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